

Question	Answer
13.	$V = 972\pi \text{ cm}^3$
15.	$d = 36 \text{ in.}$
17.	$S = 1764\pi \text{ in}^2$
19.	$V = \frac{15,625}{6}\pi \text{ m}^3$
20.	the surface area is multiplied by $\frac{1}{25}$.
21.	The volume is multiplied by 216.
22.	$S \approx 248.3 \text{ cm}^2$; $V \approx 256.5 \text{ cm}^3$
23.	$S \approx 1332.0 \text{ mm}^2$; $V \approx 1440.9 \text{ mm}^3$
30.	2.86 in, 25.78 in^2 , 12.31 in^3
36.	Earth
41a.	33.5 in^3
41b.	44.6 in^3